UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 6,780,536 B2 DATED : August 24, 2004 Page 1 of 2

INVENTOR(S) : Debe, Mark K. et al.

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 10,

Lines 10-17, replace the formula with the following:

since
$$\cos \theta = \frac{x_0}{g}$$
 in Fig. 2 above.

Also from Fig. 2, $y_0 = 2 \cdot x_0 \tan \theta + w$. Replacing y_0 in (2) with this gives, from (1),

$$U_{\gamma}(x) = -\frac{K_L}{\mu} \cdot \frac{\Delta P}{N(w+2L)} \frac{\left(w+2\frac{x}{2}\sqrt{\cos\theta}\right)}{\left(w+2x_0\tan\theta\right)}$$

Column 11,

Lines 37-42, replace the formula with the following:

 $U_{l,y}(x) = -\frac{K_L}{\mu} \cdot \frac{\Delta P_i}{(w_i + 2L_i)} \cdot \frac{\left(w_i + 2\frac{x_0}{\cos \theta_i}\right)}{(w_i + 2L_0) \cdot \left(w_i + 2\frac{x_0}{\cos \theta_i}\right)}, \quad \text{where} \quad \Delta P = \sum_{i=1}^{N} \Delta P_i \quad ...$ (5)

Line 67, replace the formula with the following:

$$\rho_i(O_2) = \frac{p_{i,O_2} \cdot M}{RT}$$
 at that point of loop i: --.

Column 12.

Lines 1-5, replace the formula with the following:

(7)
$$\frac{dm_{i,O_1}}{dA}(x=L) = \frac{-K_L M_w}{RT\mu} \frac{P_{i,O_1} \Delta P_i}{2L_i \sin \theta_i}, \quad -...$$

Line 8, replace the formula with the following:

Line 20, replace the formula with the following:

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Column 12 (cont'd),

Lines 30-32, replace the formula with the following:

..
$$p_{i,O_2} = P_{is}(O_2) \left(1 - \frac{i}{N\eta}\right)$$
. ...

Column 15,

Line 21, delete "zig-zig" and insert in place thereof -- zig-zag --.

Signed and Sealed this

Twenty-third Day of August, 2005

Som W. Duda

JON W. DUDAS Director of the United States Patent and Trademark Office